

IN THE CLAIMS:

Please cancel claims 6, 19, 21 and amend claims 1-4, 7-9, 12, 20, and 22-24 as follows:

1. (Currently amended): A system for remotely controlling devices, comprising:

a foot pedal unit having a moveable member; ~~and,~~
~~a transmitter operatively associated with the moveable member; and,~~
~~a first microprocessor operatively associated with the foot pedal unit and an RF transmitter,~~
~~the first microprocessor configured to determine whether at least a first device or a second~~
~~device is selected, the first microprocessor further configured to induce the RF transmitter to~~
~~transmit the transmitter transmitting a first RF signal in response to at least partial~~
~~displacement of the moveable member when a the first device is selected, the first~~
~~microprocessor further configured to induce the RF transmitter to transmit the transmitter~~
~~transmitting a second signal in response to at least partial displacement of the moveable~~
~~member when a the second device is selected.~~
2. (Currently amended): The system of claim 1 wherein ~~said transmitter comprises an RF~~
~~transmitter and said first signal comprises a first RF signal and said second signal comprises a~~
~~second RF signal the first RF signal has a first identifier value associated with the first device~~
~~and the second RF signal has a second identifier value associated with the second device.~~
3. (Currently amended): The system of claim 2 1 further comprising a first device actuation unit configured to receive the first RF signal and to actuate the first device based on the first RF signal.
4. (Currently amended): The system of claim 3 wherein the first device actuation unit includes a ~~first second~~ microprocessor and an RF receiver operably coupled to the ~~first second~~ microprocessor.

5. (Original): The system of claim 3 further comprising a second device actuation unit configured to receive the second RF signal and to actuate the second device based on the second RF signal.
6. (Cancelled).
7. (Currently amended): The system of claim ~~6~~ 1 further comprising an electrical switch operatively coupled to the moveable member and to the first microprocessor, wherein at least partial displacement of the moveable member actuates the electrical switch, the first microprocessor configured to induce the transmitter to transmit the first signal in response to actuation of the switch.
8. (Currently amended): The system of claim ~~6~~ 1 further comprising a pneumatic valve coupled to a conduit, the valve further operatively coupled to the moveable member, the system further including a pneumatic switch operatively coupled to the first microprocessor and to the conduit, wherein at least partial displacement of the moveable member actuates the pneumatic valve increasing a pressure in the conduit, when the pressure is greater than a predetermined pressure the pneumatic switch is actuated inducing the first microprocessor to induce the RF transmitter to transmit the first RF signal.
9. (Currently amended): The system of claim ~~6~~ 1 further comprising a pneumatic valve operatively coupled to a conduit, the valve being further operatively coupled to the movable member, the valve opening in response to at least partial displacement of the moveable member, the system further including a pressure sensor coupled to the conduit generating a pressure signal indicative of the pressure in the conduit that is transmitted to the first microprocessor.
10. (Original): The system of claim 9 wherein the first microprocessor is configured to induce the RF transmitter to generate the first RF signal when the pressure signal indicates the pressure is greater than a predetermined pressure.

11. (Original): The system of claim 9 wherein the first microprocessor is configured to induce the RF transmitter to generate the first RF signal containing a command value determined from the pressure signal.
12. (Currently amended): The system of claim 6 1 further comprising a position sensor operatively coupled to the movable member of the foot pedal unit, the position sensor generating a third signal indicative of a position of the moveable member that is received by the first microprocessor, the first microprocessor configured to induce the RF transmitter to generate generating the first RF signal containing a command value determined from the position signal.
13. (Original): The system of claim 12 wherein the position signal is indicative of an angular position of the movable member.
14. (Original): The system of claim 12 wherein the position signal is indicative of a linear position of the movable member.
15. (Original): The system of claim 1 wherein the first device comprises a dental implement.
16. (Original): The system of claim 1 wherein the first device comprises a medical implement.
17. (Original): The system of claim 1 wherein the first device comprises one of a drill, a microprocessor position-controllable dental chair, an infrared photo-optic imaging camera, a dental irrigator, an intra-oral camera, a video capture circuit, a laser, an air-abrasion unit, an electro-surgery unit, an ultrasonic teeth cleaning unit, a piezo-ultrasonic unit, an air polishing prophylaxis device, a gum depth measurement probe, a surgical microscope with controllable focusing adjustment, a microprocessor controlled anesthetic delivery system, and an endodontic heat source device.

18. (Original): The system of claim 1 wherein the first device comprises a video capture board, the system further comprising a first device actuation unit operatively coupled to the video capture board, the first device actuation unit configured to receive the first RF signal and to induce the video capture board to store a video image in a memory in response to the first RF signal.

19. (Cancelled).

20. (Currently amended): The system of claim 1 further comprising:

a first second microprocessor operatively coupled to a an RF receiver, and
a an RF transmitter unit configured to transmit a third RF signal indicative of having a first identifier value associated with the first device for selecting the first device, the first second microprocessor being further configured to store the first identifier value in a memory when the third RF signal is received by the RF receiver.

21. (Cancelled).

22. (Currently amended): A method for remotely controlling devices, comprising:

determining when a first device is selected, utilizing a microprocessor;
inducing an RF transmitter to transmit transmitting a first RF signal in response to at least
partial displacement of a moveable member on a foot pedal unit when a the first device is
selected, utilizing the microprocessor;

determining when a second device is selected, utilizing the microprocessor;
inducing the RF transmitter to transmit transmitting a second RF signal in response to
at least partial displacement of the moveable member on the foot pedal unit when a the
second device is selected, utilizing the microprocessor; and,

controlling the first device based on the first signal.

23. (Currently amended): The method of claim 22 wherein said first and second signals
comprise first and second RF signals, respectively the first RF signal has a first identifier
value associated with the first device and the second RF signal has a second identifier value
associated with the second device.

24. (Currently amended): The method of claim 22 further comprising controlling the second device based on the second RF signal.

25. (Original): The method of claim 22 wherein the first device comprises a dental implement or a medical implement.

26. (Original): The method of claim 22 wherein the first device comprises one of a drill, a microprocessor position-controllable dental chair, an infrared photo-optic imaging camera, a dental irrigator, an intra-oral camera, a video capture circuit, a laser, an air-abrasion unit, an electro-surgery unit, an ultrasonic teeth cleaning unit, a piezo-ultrasonic unit, an air polishing prophylaxis device, a gum depth measurement probe, a surgical microscope with controllable focusing adjustment, a microprocessor controlled anesthetic delivery system, and an endodontic heat source device.

27. (Original): The method of claim 22 wherein the controlling step includes inducing a video capture board to store a video image in a memory in response to the first signal.

Please add new claims 28-30.

28. (New): The system of claim 3 wherein the first microprocessor is further configured to induce the RF transmitter to transmit a third RF signal in response to at least partial displacement of the moveable member when the first device is selected.

29. (New): The system of claim 28 wherein the device actuation unit is further configured to receive the third RF signal and to maintain activation of the first device during a first time period from at least receipt of the first RF signal to receipt of the third RF signal, if the first time period is less than or equal to a threshold time period.

30. (New): The method of claim 22 further comprising:

inducing the RF transmitter to transmit a third RF signal in response to at least partial displacement of the moveable member when the first device is selected; and

receiving the third RF signal at a device actuation unit and maintaining activation of the first device during a first time period from at least receipt of the first RF signal to receipt of the third RF signal, if the first time period is less than or equal to a threshold time period.